TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-09-02** **Date: 11-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-02/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-05-2017 to 11-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.12	–
2	Finess by Air permeablity method (m^2/kg, Min)	278.2	225m^2/kg, Min
3	Density (gm/cc)	3.19	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	275 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-09-02** **Date: 07-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-02/01
Sample Type	:	Zuari 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	10-05-2017 to 11-05-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-09-02** **Date: 12-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-02/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	09-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	169	169	3.4	96.6	90-100
3	10 mm	2247	2416	48.3	51.7	25-55
4	4.75 mm	2447	4863	97.3	2.7	0-10
5	Pan	137	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-09-02** **Date: 12-05-2017**

Sample ID No : 2017-05-09-02/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.8	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.51	_
5	Bulk Density(Compacted) (Kg/l)	1.57	_
6	Water Absorption(%)	0.19	_
7	Aggregate crushing Value(%)	22.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20.2	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:
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Authorized Signature
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-09-02** **Date: 12-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-02/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	09-05-17

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SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	454	454	3.0	97.0	90-100
3	20 mm	7841	8295	55.3	44.7	30-70
4	10 mm	4214	12509	83.4	16.6	10-35
5	4.75 mm	2178	14687	97.9	2.1	0-5
6	Pan	313	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-09-02** **Date: 12-05-2017**

Sample ID No : 2017-05-09-02/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.24	–

Note:

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-09-02** **Date: 12-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-02/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-05-17
Total weight taken	:	1000 grams

Assistant Executive Engineer Vidyaranyapura Sub Division BBMP, Bangalore - 97

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	17	17	1.7	98.3	90-100	90-100	90-100	95-100
3	2.36 mm	89	106	10.6	89.4	60-95	75-100	85-100	95-100
4	1.18 mm	224	330	33	67.0	30-70	55-90	75-100	90-100
5	600 micron	192	522	52.2	47.8	15-34	35-59	60-79	80-100
6	300 micron	211	733	73.3	26.7	5-20	8-30	12-40	15-50
7	150 micron	215	948	94.8	5.2	0-10	0-10	0-10	0-15
8	Pan	52	1000	100	0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-09-02 Date: 12-05-17

Sample ID No : 2017-05-09-02/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.98	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-09-02** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-02/04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	10-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	10mm	0.613	551	662	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	10mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-09-02** **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-05-17
Sample ID No	:	2017-05-09-02/05
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	10-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik	Fe500	12mm	0.882	568	672	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik	Fe500	12mm	Satisfactory	Satisfactory

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Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-18-06** **Date: 23-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.

Customer's Reference : BBMP/EE/BTP/WO/07/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-17

Sample ID No : 2017-05-18-06/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/05/2017	23/05/2017	149.41 X 150.37 X 150.98	22467	8.129	381.9	17.0	17.3
2	Drain Concrete	M20	16/05/2017	23/05/2017	150.28 X 150.66 X 150.78	22641	8.054	398.5	17.6	
3	Drain Concrete	M20	16/05/2017	23/05/2017	150.76 X 150.66 X 150.27	22714	8.177	392.9	17.3	

Note:
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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2017-05-18-06** **Date: 13-06-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-06/02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/05/2017	13/06/2017	150.88 X 150.98 X 150.47	22780	8.179	533.0	23.4	24.0
2	Drain Concrete	M20	16/05/2017	13/06/2017	150.36 X 150.01 X 150.55	22556	8.201	545.8	24.2	
3	Drain Concrete	M20	16/05/2017	13/06/2017	150.58 X 150.87 X 150.65	22718	8.174	556.6	24.5	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-05-18-06** **Date: 23-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-06/03
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/05/2017	23/05/2017	150.45 X 150.98 X 150.44	22715	8.145	374.8	16.5	17.1
2	Drain Concrete	M20	16/05/2017	23/05/2017	150.65 X 150.24 X 150.44	22634	8.105	389.3	17.2	
3	Drain Concrete	M20	16/05/2017	23/05/2017	150.98 X 150.46 X 150.78	22716	8.755	399.8	17.6	

Note:
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore

Prepared by
Harsitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2017-05-18-06** **Date: 13-06-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-06/04
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	16/05/2017	13/06/2017	150.41 X 150.87 X 150.64	22692	8.143	533.3	23.5	23.4
2	Drain Concrete	M20	16/05/2017	13/06/2017	150.33 X 150.48 X 150.66	22622	8.144	536.1	23.7	
3	Drain Concrete	M20	16/05/2017	13/06/2017	149.87 X 150.33 X 150.75	22530	8.165	520.4	23.1	

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Prepared by
Harsitha

Assistant Executive Engineer
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-22-04** **Date: 25-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.

Agency : Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.

Customer's Reference : BBMP/EE/BTP/WO/07/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-05-17

Sample ID No : 2017-05-22-04/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M15	18/05/2017	25/05/2017	150.88 X 150.65 X 150.24	22730	8.103	259.1	11.4	11.8
2	Drain Concrete	M15	18/05/2017	25/05/2017	150.44 X 150.34 X 150.71	22617	8.145	269.1	11.9	
3	Drain Concrete	M15	18/05/2017	25/05/2017	150.58 X 150.61 X 150.42	22679	8.172	276.7	12.2	

Note:
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Prepared by
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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2017-05-22-04** **Date: 15-06-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at 2nd Main L/S C. Ramaiah Layout in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division.
Agency	:	Sri.K. Anil Kumar, No:84-L, 2nd Foor, 3rd Cross, 4th main, HAL, 3rd Stage, Thippasandra, Bangalore-560 075.
Customer's Reference	:	BBMP/EE/BTP/WO/07/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-05-17
Sample ID No	:	2017-05-22-04/01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	15/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M15	18/05/2017	15/06/2017	150.72 X 150.98 X 149.68	22756	8.172	407.3	17.9	17.8
2	Drain Concrete	M15	18/05/2017	15/06/2017	150.22 X 150.48 X 150.33	22605	8.143	395.6	17.5	
3	Drain Concrete	M15	18/05/2017	15/06/2017	150.45 X 150.42 X 150.33	22631	8.198	409.6	18.1	

Note:
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****End of Report****